

Fig. 1

## SEQ ID NO: 1

GAATTCTGCGGAGCCTGCGGGACGGCGGCGGGTTGGCCCGTAGGCAGC  
CGGGACAGTGTGTACAGTGT TTTGGGCATGCACGTGATACTCACACA  
GTGGCTTCTGCTCACCAACAGATGAAGACAGATGCACCAACGAGGGTC  
TGGAATGGTCTGGAGTGGTCTGGAAAGCAGGGTCAGATACCCCTGGAA  
AACTGAAGCCCGTGGAGCAATGATCTCTACAGGACTGCTTCAAGGCTG  
ATGGGAACCACCCTGTAGAGGTCCATCTGCGTTCAGACCCAGACGATG  
CCAGAGCTATGACTGGGCCTGCAGGTGTGGCGCCGAGGGGAGATCAGC  
CATGGAGCAGCCACAGGAGGAAGCCCCTGAGGTCCGGGAAGAGGAGGA  
GAAAGAGGAAGTGGCAGAGGCAGAAGGAGCCCCAGAGCTCAATGGGGG  
ACCACAGCATGCACTTCCTTCCAGCAGCTACACAGACCTCTCCCGGAG  
CTCCTCGCCACCCTCACTGCTGGACCAACTGCAGATGGGCTGTGACGG  
GGCCTCATGCGGCAGCCTCAACATGGAGTGCCGGGTGTGCGGGGACAA  
GGCATCGGGCTTCCACTACGGTGTTTCATGCATGTGAGGGGTGCAAGGG  
CTTCTTCCGTCGTACGATCCGCATGAAGCTGGAGTACGAGAAGTGTGA  
GCGCAGCTGCAAGATTCAGAAGAAGAACCGCAACAAGTGCCAGTACTG  
CCGCTTCCAGAAGTGCCTGGCACTGGGCATGTACACAACGCTATCCG  
TTTTGGTCGGATGCCGGAGGCTGAGAAGAGGAAGCTGGTGGCAGGGCT  
GACTGCAAACGAGGGGAGCCAGTACAACCCACAGGTGGCCGACCTGAA  
GGCCTTCTCCAAGCACATCTACAATGCCTACCTGAAAACTTCAACAT  
GACCAAAAAGAAGGCCCGCAGCATCCTCACCGGCAAAGCCAGCCACAC  
GGCGCCCTTTGTGATCCACGACATCGAGACATTGTGGCAGGCAGAGAA  
GGGGCTGGTGTGGAAGCAGTTGGTGAATGGCCTGCCTCCCTACAAGGA  
GATCAGCGTGCACGTCTTCTACCGCTGCCAGTGCACCACAGTGGAGAC  
CGTGCGGGAGCTCACTGAGTTCGCCAAGAGCATCCCCAGCTTCAGCAG  
CCTCTTCCCTCAACGACCAGGTTACCCTTCTCAAGTATGGCGTGCACGA  
GGCCATCTTCGCCATGCTGGCCTCTATCGTCAACAAGGACGGGCTGCT  
GGTAGCCAACGGCAGTGGCTTTGTCACCCGTGAGTTCCTGCGCAGCCT  
CCGCAAACCCTTCAGTGATATCATTGAGCCTAAGTTTGAATTTGCTGT

**Fig. 1** (continued)

CAAGTTCAACGCCCTGGAACCTTGATGACAGTGACCTGGCCCTATTTCAT  
TGCGGCCATCATTCTGTGTGGAGACCGGCCAGGCCTCATGAACGTTCC  
ACGGGTGGAGGCTATCCAGGACACCATCCTGCGTGCCCTCGAATTCCA  
CCTGCAGGCCAACCACCCTGATGCCCAGTACCTCTTCCCCAAGCTGCT  
GCAGAAGATGGCTGACCTGCGGCAACTGGTCACCGAGCACGCCCAGAT  
GATGCAGCGGATCAAGAAGACCGAAACCGAGACCTCGCTGCACCCTCT  
GCTCCAGGAGATCTACAAGGACATGTACTAACGGCGGCACCCAGGCCT  
CCCTGCAGACTCCAATGGGGCCAGCACTGGAGGGGGCCACCCACATGA  
CTTTTCCATTGACCAGCTCTCTTCCTGTCTTTGTTGTCTCCCTCTTTC  
TCAGTTCCTCTTTCTTTTCTAATTCCTGTTGCTCTGTTTCTTCCTTTC  
TG TAGGTTTCTCTCTTCCCTTCTCCCTTCTCCCTTGCCCTCCCTTTCT  
CTCTCCTATCCCCACGTCTGTCCTCCTTTCTTATTCTGTGAGATGTTT  
TGTATTATTTACCAGCAGCATAGAACAGGACCTCTGCTTTTGCACAC  
CTTTTCCCCAGGAGCAGAAGAGAGTGGGCCTGCCCTCTGCCCCATCAT  
TGCACCTGCAGGCTTAGGTCCTCACTTCTGTCTCCTGTCTTCAGAGCA  
AAAGACTTGAGCCATCCAAAGAAACACTAAGCTCTCTGGGCCTGGGTT  
CCAGGGAAGGCTAAGCATGGCCTGGACTGACTGCAGCCCCCTATAGTC  
ATGGGGTCCCTGCTGCAAAGGACAGTGGCAGACCCCGGCAGTAGAGCC  
GAGATGCCTCCCCAAGACTGTCATTGCCCCTCCGATCGTGAGGCCACC  
CACTGACCCAATGATCCTCTCCAGCAGCACACCTCAGCCCCACTGACA  
CCCAGTGTCTTCCATCTTCACACTGGTTTGCCAGGCCAATGTTGCTG  
ATGGCCCCTCCAGCACACACACATAAGCACTGAAATCACTTTACCTGC  
AGGCACCATGCACCTCCCTTCCCTCCCTGAGGCAGGTGAGAACCCAGA  
GAGAGGGGCCTGCAGGTGAGCAGGCAGGGCTGGGCCAGGTCTCCGGGG  
AGGCAGGGGTCTGTCAGGTCTTGGTGGGTGAGCCCAGCACCTCGCCCA  
GTGGGAGCTTCCCGGGATAAACTGAGCCTGTTTATTCTGATGTCCATT  
TGTCCCAATAGCTCTACTGCCCTCCCTTCCCTTTACTCAGCCCAGC  
TGGCCACCTAGAAGTCTCCCTGCACAGCCTCTAGTGTCCGGGGACCTT  
GTGGGACCAGTCCCACACCGCTGGTCCCTGCCCTCCCTTGCTCCCAGG

**Fig. 1** (continued)

TTGAGGTGCGCTCACCTCAGAGCAGGGCCAAAGCACAGCTGGGCATGC  
CATGTCTGAGCGGCGCAGAGCCCTCCAGGCCTGCAGGGGCAAGGGGCT  
GGCTGGAGTCTCAGAGCACAGAGGTAGGAGAACTGGGGTTCAAGCCCA  
GGCTTCCTGGGTCTTGCTGCTGCTCCTCCCTCCCAAGGAGCCATTCTATG  
TGA CTCTGGGTGGAAGTGCCCAGCCCCTGCCTGACGGNNNNNNNGATC  
ACTCTCTGCTGGCAGGATTCTTCCCGCTCCCCACCTACCCAGCTGATG  
GGGGTTGGGGTGCTTCTTTTCAGCCAAGGCTATGAAGGGACAGCTGCTG  
GGACCCACCTCCCCCCTTCCCCGGCCACATGCCGCGTCCCTGCCCCCA  
CCCGGGTCTGGTGCTGAGGATACAGCTCTTCTCAGTGTCTGAACAATC  
TCCAAAATTGAAATGTATATTTTTTGCTAGGAGCCCCAGCTTCCTGTGT  
TTTTAATATAAATAGTGTACACAGACTGACGAAACTTTAAATAAATGG  
GAATTAAATATTTAAAAAAAAGCGGCCGCGAATTC

**Fig. 2****SEQ ID NO: 2**

MEQPQEEAPEVREEEEEKEEVAEAEGAPELNNGGPQHALPSSSYTDLSRS  
SSPPSLLDQLQMGCDGASCGSLNMECRVCGDKASGFHYGVHACEGCKG  
FFRRTIRMKLEYEKCERSCKIQKKNRNKCQYCRFQKCLALGMSHNAIR  
FGRMPEAEKRKL VAGLTANEGSQYNPQVADLKAFSKHIYNAYLKNFNM  
TKKKARSILT GKASHTAPFVIHDIETLWQAEKGLVWKQLVNGLPPYKE  
ISVHVFYRCQCTTVETVRELTEFAKSIPSFSSLFLNDQVTLLKYGVHE  
AIFAMLASIVNKDGLLVANGSGFVTREFLRSLRKPFSDIIEPKFEFAV  
KFNALELDDSDLALFIAAII LCGDRPGLMNVPRVEAIQDTILRALEFH  
LQANHPDAQYLFPKLLQKMADLRQLVTEHAQMMQRIKKTETETSLHPL  
LQEIIYKDMY

**Fig. 3**

**SEQ ID NO: 3**

5' - CAGTACTGCCGCTTCCAGA - 3'

**Fig. 4**

**SEQ ID NO: 4**

5' - CATCCGACCAAAACGGATAG - 3'

**Fig. 5**

**SEQ ID NO: 5**

5' - CTGGCACTGGGCATGTCACACAAC - 3'